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APPLICATION NO. FILING DATE		DATE	FIRST NAMED INVENTOR .	. ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,671	03/18/2004		Timothy G. Offerle	81095823FGT1905	2670
28549	7590	01/03/2008		EXAN	INER
Dickinson Wa 38525 Woody	_		TO, TUAN C		
Suite 2000	:11a NAT 4020	.1	•	ART UNIT	PAPER NUMBER
Bloomfield H	1118, IVII 4630	4		3663	
				MAIL DATE	DELIVERY MODE
				01/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/708,671	OFFERLE ET AL.			
Office Action Summary	Examiner	Art Unit			
· · · · · ·	Tuan C. To	3663			
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet v	vith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status	·				
1) Responsive to communication(s) filed on 19 C	October 2007.				
2a) ☐ This action is FINAL. 2b) ☑ This	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>2-14 and 27-35</u> is/are pending in the application.					
4a) Of the above claim(s) <u>2-14 and 33-35</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>27-32</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 26 April 2002 is/are: a)	•	cted to by the Examiner			
Applicant may not request that any objection to the	• • •				
Replacement drawing sheet(s) including the correct					
11) The oath or declaration is objected to by the Ex		• •			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the prior	-	received in this National Stage			
application from the International Bureau					
* See the attached detailed Office action for a list	of the certified copies not	received.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	` 	s)/Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of I 6) Other:	nformal Patent Application			
J.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office Ac	tion Summary	Part of Paper No./Mail Date 20071219			

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DETAILED ACTION

In view of the appeal filed on 10/19/2007, PROSECUTION IS HEREBY REOPENED. A new ground of rejection has been set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

SUPERMISO (W FORENTE DE MINIER)

OTIII. 3003

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 27 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al. (US 20030156045A1) and in view of Bedner et al. (US 20020198646A1).

Regarding claim 27, Tanaka et al. directs to a system/method of controlling an automotive vehicle comprising: a shift lever having a reverse position generating a

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reverse position signal when associates with the parking assist ECU (2) (Tanaka et al., page 2, paragraph 0032; figure 1), the parking assist ECU (2) acts as a controller coupled to said shift lever, and the parking assist ECU (2). The ECU (2) receives the input signal from shift lever. However, the ECU (2) is not disclosed as applying brake-steer in response to the reverse position signal.

The second reference to Bedner et al. discloses a vehicle control system in which the control unit (26) receives variety input signal from wheel speed sensor (paragraph 0010), yaw rate signal, and steer angle signal (figure 1). The brake actuator (20), front steer actuator (22), and rear steer actuator (24) receives control signals from the control unit (26). The brake actuator (20) includes anti-lock braking (ABS) and a built in wheel speed sensor. Such the ABS helps driver maintain steering ability and avoid skidding while braking. Further, both braking and steering are control by the control unit (26). Therefore, the control unit (26) applies brake-steer. Bedner et al. merely fails to include a shift lever, however, such feature is inherently included since the vehicle should include a shift lever for control driving forward or backward.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system as taught by Tanaka et al. to include the teaching of control brake-steer in response to the reverse position signal as taught in Bedner et al. so that effectively control the stability of vehicle when getting into a parking lot.

As to claim 32, Tanaka et al. further discloses "a steering wheel angle sensor generating a steering wheel angle signal, said controller programmed to apply brake-

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steer in response to the reverse directional signal and the steering wheel angle signal (Tanaka et al., figure 1, steering angle sensor 9).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al. (US 20030156045A1), Bedner et al. (US 20020198646A1), and in view of Spillane et al. (US 20030200016A1).

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Tanaka and Bedner et al. do not disclose a transfer case having a transfer case mode, and said controller that controls to change the transfer case mode based on the braking system (50 and the steering system (40) (paragraph 0072).

Spillane et al. has been provided as teaching a vehicle control in which the transmission controller (30) (figure 1) controls the mode of the transfer case (21) (paragraph 0071).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system/method as taught by Tanaka et al., an Bedner et al. to include the teachings of Spillane et al. to control the distribution of drive torque between the front and rear axles, and the rear differential so as to control the distribution of drive torque between the two rear wheels.

Claims 29-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al. (US 20030156045A1), Bedner et al. (US 20020198646A1), and further in view of Ritz et al. (US 200200060103A1).

Regarding claim 29, Tanaka et al. and Bedner et al. fails to teach "controller is programmed to apply brake-steer by applying a first brake and second brake, one brake at a first wheel in order to reduce the turning radius of the vehicle.

The reference to Ritz et al. has been cited as teaching a vehicle, in which the control system is equipped with the controller (23) (Ritz et al., figure 1, control section 23) for activating steering-supporting braking torque (brake-steer) generated on the wheel inside the curve and a brake is applied to a first wheel (2_{HL}) (Ritz et al., figure 1,

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brake is applied to left rear wheel 2_{HL} ; page 3, paragraph 0031). The first brake is applied and also the second is applied (Ritz et al., page 2, paragraph 0017).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system/method as taught by Tanaka et al. and Bedner et al. to include the teachings of Ritz et al. in order to bring the vehicle driver a comfort of driving and a safety of moving when the vehicle is controlled to back up.

As to claim 30, Ritz et al. further teaches that the controller (23) is programmed to apply brake-steer by applying at least one brake at a first wheel to reduce a vehicle turning radius (Ritz et al., figure 1, paragraph 0031, braking is applied at the first wheel (2_{HL}) in order to reduce vehicle turning radius).

As to claim 31, neither Tanaka et al. Ritz et al. addresses the limitation "the control is programmed to apply brake-steer by applying an increased drive torque to a second wheel relative to the first wheel", however, while the reference to Ritz et al. teach the vehicle equipped with a controller (23), wherein said controller is inherently controlled to increase drive torque to a second wheel relative to the first wheel (Ritz et al., figure 1, the torque M_B of the front left wheel increased to compare with torque M_B of the rear left wheel).

Response to Arguments

Applicant's appeal filed 10/19/2007 has been fully considered. The previous rejection has been withdrawn. A new ground of rejection has been made upon the found of new prior art.

Response to Arguments

Applicant's arguments with respect to claim 27-32 have been considered but are most in view of the new ground(s) of rejection.

Conclusions

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan C To whose telephone number is (571) 272-6985. The examiner can normally be reached on from 8:00AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on 571-272-6878.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Patent Examiner,

Tuan C To

December 19, 2007